SUNDAY JOURNAL RADIO SECTION

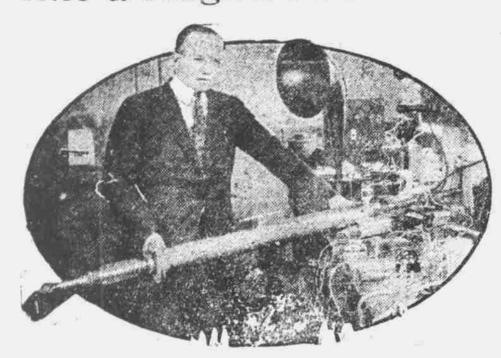
alternating, or low frequency to high fre-

Good for Radio.

ries could predict.

Its efficiency is rated at from 70 to 80

Vacuum Tube Is Developed Into a Huge Power Source



J. H. PAYNE, JR., AND HIS MILLION-WATT TUBE.

Out of the small vacuum tube of the and supplies enough energy to light 1500 radio set engineers will be able to pro- average homes. Its filament of tungsten, duce wenders not only in wireless but in if drawn into filament the size of that in an ordinary incandescent lamp, would

The extent of these wenders can only supply enough for 175,000 such lamps. be deduced from the great achievements. This tube essentially is intended for the that will span the ocean with its radi- alternating to direct current, direct to

the General Electric Company, is the man per cent radio transmission. For other ment of this tube. Before him Dr. I. ving Langmuir had brought out a tube, six of ment of the vacuum tube, none of the enmission of high frequency waves

it may be reduced into known terms, the limitation of the ultimate use of the 1922. For example, the tube weight 60 pounds vacuum tubes in the power field."

COUNCIL BLUFFS, In., Nov. 12 .-Wayne C. Emerick of this city wants to

Breadcasting stations throughout the land have been requested to send out

his call for relatives or anyone who may

months old, in 1902, was adopted by the Emerick family here. He was only three-

days old, in September of the year before,

when he was left to be cared for by the

Emerick, "was that my mother died three days after my birth, and my father

shortly afterward disappeared since then

I have been unable to find anything of his whereabouts or the place where, my mother was buried, if the story con-

Real Name. Emerick thinks his real name is Clifs:

"But no available proof has ever been available that it is Clifford Holmes," he

adds. "The matron at the orphanage at

the time gave this information to my

forter parents and I guess that's about

ing his request for information about

himself from WAAW, the broadcasting

station of the Omaha Grain Exchange, at

Omaha, Neb. He has sent appeals to other stations for similar services. He

has not yet received any help from radio fans who might have listened in.

But Emerick has high hopes for suc-

cess. Radio, he believes, will help him

solve the mystery of himself. He is con-

tinuing to send appeals to the radio en-

country's broadcasting stations.

Emerick, or Holmes, began broadcast-

'The information at that time." says

Wayne C. Emerick is the faster name of the young man who, when only five

cast any light on his real identity.

Christian Home Orphanage here.

cerning her death was true.

the extent of the facts."

Youth Seeks Radio Help

Radio Will Keep Tots Off Street

Keep your children off the streets by interesting them in radio. Or, if you can't afford a radio set, try to get the community interested in the safety of the children by this means.

The plan has already been tried with success in New York. Teachers of Athletic Center 62 got together and installed a radic receiving instrument with a loud speaker in the courtyard. After their school hours the children

gathered for athletic practice and were surprised to hear the returns of the world series. They told their chums who had decided to stay out and play in the streets around their homes, The next day the athletic center wa crowded with eager children. And the streets were cleared for ve-

Cable Companies Not Hurt By Radio

NEW YORK, Nov. 11 .- Trans-atlantic radio is not taking any of the overseas business away from the cable companies, says Newcomb Carlton, president of the Western Union Telegraph Company,

"The Radio Corporation of America is cent of the eastward and westward business between the United States, Great already accomplished while the science generation and transmission of high volt- Britain and Continental Europe," said is only at its initial stage. One of age direct current and for other engi- Carlton. "While a considerable part of these—the latest—is the enlargement of neering work requiring high electrical this business would no doubt have gone the tube until it can include a power agency. It serves as a rectifier to change to the cable companies, an important part is newly created traffic.

"The radio rate from New York to London is 18 cents a word, competing against a cable rate of 25 cents. In other words, with rates 30 per cent cheaper, the radio is doing from 12 tq 14 per cent of the business.'

AMATEUR LIST GROWS.

Payne's product is said to be 50 times "The practical construction of powerful considerably is shown by the fact that. as powerful as Langmuir's. Its power tubes giving theroughly satisfactory in the last 15 months, the number of output is 40 amperes under a pressure operation requires a great deal more of amateur stations in the United States of 250,000 volts. Which means its capa- development work," explained Dr. Lang. has ircreased by more than 50 per cent muir in discussing Payne's invention. There were 10,809 Ecensed amateurs on To conceive the immensity of this tube "it would be rash, however, to predict June 30, 1921 and 16,467 on Sept. 1

BIG RADIO DEMAND.

The enormous demand for radio products in the United States may be surmised from the fact that production increased 11 times from 1914 to 1919, re-To Learn Real Identity ports the United States Bureau of Stan-dards. The estimated value of apparatus made during 1921 has been placed at

DANCE HALL IN SWIM.

dance music three times a week. Their plan is to send out the music to fans within 35 miles radius.

400 "HAMS" IN CANADA.

More than 400 licenses have been issued to radio "hams" in Canada, The amateurs pay a fee of \$1 for permission to send their messages out into the

WIRELESS ON BUSSES.

next year will be entertained during government is not. their journeys with radio. A large sightseeing bus company of that city will exert a tremendous influence when made preparations to equip all its ve- representatives of France, England, nicles with radio receiving sets.

RADIO IN FACTORY.

Radio has entered the factory. One large British factory has had a radio set installed in the main workroom, so that the employes may listen in on a concert while at work. Other firms have installed radio sets in their employes' restaurants and rest rooms.

RADIO 6500 MILES.

During a cold night recently when atmospheric interference was almost eliminated the wireless station at Estayen, 150 miles southwest of Victoria, B. C., was able to hear Baratonga. New Zealand. The distance covered is about 6500 miles.

finally decided it would not send out any mal Pasha. of its operas by radio.

The opera selected will be "Aida," and * will be from there that the music will out of these countries. Rosa Raisa, famous Russian soprano, be sent to breadcasting station of KYW A glance at the map discloses why for French support in the big business

ity of sending out grand opera by means year, through station KYW and by ar- worth of trade. of the ether waves. Some of them tists of the Chicago Opera Company. deubted its muscleability. But many ex- But the music of last year was merely a If the western powers come to an pact-and France backed the winner, pressed their currently to see flow such backed the managers intend to agreement with Turkey and Russia the Kemal Pasha, while England backed the an experiment would be received by the broadcast this season.

ing was done and the New York company more slowly than its relative, the camel, make it their own lake, keeping the oil, 1607.



DOLLARS AND OIL WILL SETTLE WARFARE

OUT OUR WAY

LONDON, Nov. 11 .- American dollars will be represented at the Turco-Grecian Travelers on the busses of New York peace conference, even if the American

LOVES LABOR LOST

Powerful dollars, bound up with oil, Italy, Japan, Rumania, Jugoslavia, Turkey and Greece meet at Lausanne Nov.

NEA Service Staff Correspondent.

The conference will do more than merely settle peace terms between Turkey and Greece and decide what lands Greece shall hand back to Turkey.

Big Questions to Be Settled. It will settle these bigger questions:

FIRST: Shall the Black Sea be a Russo-Turkish lake? SECOND: Shall American and French

British and Dutch oil interests? Every country, including Soviet Rus-

The Turks and Russians agree that coal, wheat, cereals and timber locked The experiment here is receiving the Georgia and the Ukraine should sit in the up. hearty co-operation of the Chicago Opera Georgia and the Ukraine should sit in the Company officials and the artists. "Aida" conference. England and France are will be presented in the Auditorium not enthusiastic about this, but they are
Theatre on the evening of the 13th, and vitally interested in the things that come
Theatre on the evening of the 13th, and vitally interested in the things that come

and out into the air for reception of everybody is so interested in the freedom game being fought over Asia Minor and radio fans who can tune in on this sta- of the straits leading to the Black Sea Black Sea oil deposits. for upon this sea are the ports through Standard Oil is understood to have the try ever have wondered over the possibil- Opera selections were breadcast last which must come millions of dollars inside track now with the French. And

Dispute Over Oil.

will be open to the commerce of all na-First efforts to broadcast grand opera. The Hama, noted as a beast of burden tions. If the Turks and Russians do not. A primitive type of machine gun of



oil interests have an even break with MAP SHOWING PORTS OF BLACK SEA WHICH WILL BE VITALLY AFsia and the new republics carved out of FECTED, ESPECIALLY IN OIL COMold Russian territory-the Ukraine, MERCE, BY TURCO-GRECIAN PEACE Georgia and Azerbaijan-are vitally in- CONFERENCE. BELOW, TWO LEADterested. So much that the Soviets in- ERS WHO MAY DICTATE COMMER-Leo Kameneff, Soviet cabinet member, CIAL TERMS: LEO KAMENEFF, SOmay loom as a factor second only in im- VIET CABINET MEMBER (LEFT) AND portance to the victorious Mustapha Ke- MUSTAPHA KEMAL PASHA.

French favor is highly important, for everything hinges on the Turco-Grecian

were made through the Metropolitan in certain parts of Latin-America, can come to an agreement with the powers. Chinese manufacture, according to an appear company in New York. But notibe travel only 12 to 15 miles daily, or much they may be able to seal up this sea and inscription on the barrel, dates from

Sam's on Time, but-







OVOROSSUSK:

Lady Byng Weds

Lady Eleanor Byng and H. E.

Atkinson leaving St. Michael's

Church in London after their

of English society.

wedding attended by the leaders





SOULS

My soul goes clad in gorg things. Scarlet and gold and blue. And at her shoulder sudden Like long flames flicker through

And she is swallow fleet, and in From mortal bonds and bar-She laughs because Eternity Blossoms for her in stars.

O folk who scorn my stiff My dull and foolish face. Can ye not see my soul down.

A singing flame through spa-And you, whose earth stained

I hate, Why may I not divine Your souls, that must be beau Shining and swift as mine. -Fannie Stearns I'm

which anything definite is known issued in London in 1583 on the William Gybbons.

The earliest life insurance po

Impresarios and music critics the coun-

thusiasts and their friends through the Some day he hopes he will flear of his

Classics to Be Broadcast

will sing the title role.

Tune In On Grand Opera!



ROSA RAISA.

By NEA Service. CHICAGO, Nov. 11.-Get ready to tune.

in on grand opera! Prelenged attempts to get the co-operation of large opera companies with radio broadcasting organizations have been successful. On the evening of Nov. 13 the Chicago Opera Company will give its first complete radio operation liest ever to be broadcast by wireless.











